



PCT

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$$\begin{array}{c} (\text{CXY}-\text{CZ})_x-(\text{M})_y \\ | \\ \text{R-A} \end{array} \quad (\text{I})$$

(57) Abstract: A polymer having a structure represented by general formula: (I) (wherein X, Y, and Z each is hydrogen, fluorine, chlorine, bromine, or iodine, provided that at least one of X, Y, and Z is fluorine; R is linear or branched fluoroalkylene optionally containing oxygen; x and y each represents mol% and x is 1 to 100 mol%; A is -CN, -NCO, -COOR' (R' is hydrogen or alkyl), an acid anhydride group, or an unsaturated hydrocarbon group; and M is a repeating unit derived from a monomer capable of reacting with the unsaturated hydrocarbon group to proceed the polymerization).

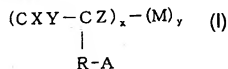
copolymerizable monomer) is treated with a crosslinking agent selected among ammonia, a diamine, and a polyol to crosslink the polymer through pendant functional groups of the polymer. This method of crosslinking can be carried out at room temperature and gives a transparent fluoro-resin having excellent heat resistance as compared with conventional transparent thermoplastic resins.

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(57) 要約:

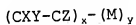
一般式:



(式中、X、Y及びZは各々H、F、Cl、Br又はI。ただし、X、Y及びZの少なくとも一つはF。Rは、酸素原子を含んでよい直鎖又は分岐含フッ素アルキレン基。x及びyはモル%を表し、xは1~100モル%である。Aは、-CN、-NCO、-COOR' (R'はH又はアルキル基)、酸無水物基又は不飽和炭化水素基。Mは、共重合可能な単量体から誘導される繰り返し単位。)で示される構造を有する重合体を、アンモニア、ジアミンおよびポリオールから選択される架橋剤により処理して該重合体の側鎖官能基を介して架橋させる。この架橋方法は、室温で実施でき、従来の透明性熱可塑性樹脂に比べて耐熱性が優れた透明性フッ素樹脂を与える。

ABSTRACT

A polymer having a structure of the formula:



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R-A

- 5 in which X, Y and Z represent independently each other H, F, Cl, Br or I, provided that at least one of X, Y and Z is F; R represents a straight or branched fluorinated alkylene group which may contain an oxygen atom; x and y represent mole percentages and
- 10 x is from 1 to 100 % by mole; A is -CN, -NCO, -COOR' in which R' is H or an alkyl group having 1 to 10 carbon atoms, an acid anhydride group or an unsaturated hydrocarbon group; and M is a repeating unit derived from a copolymerizable monomer is
- 15 treated with a crosslinking agent selected from ammonia, diamines and polyol compounds and crosslinked through the side functional groups of the polymer. This crosslinking method can be carried out at room temperature and provides a transparent fluoropolymer having better heat resistance than conventional transparent thermoplastic resins.

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